



#### National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Thursday, March 20, 2025 Time of Issue: 1400 hours IST (MID-DAY)

#### ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

#### **Significant Weather Features:**

#### Weather Systems, Forecast and Warnings:

- An upper air cyclonic circulation lies over southwest Madhya Pradesh & neighbourhood and a trough runs from this cyclonic circulation and there is wind confluence over east & adjoining central India due to the above trough and anticyclonic circulation over Bay of Bengal at lower tropospheric levels. Under the influence of these systems:
  - ✓ Scattered to Fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 50-60 kmph) likely over Gangetic West Bengal, Jharkhand, Odisha during 20th-22nd March.
  - ✓ Isolated to Scattered light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 40-50 kmph) likely over West Madhya Pradesh on 20<sup>th</sup> & 21<sup>st</sup>; East Madhya Pradesh, Vidarbha, Chhattisgarh during 20<sup>th</sup>-22<sup>nd</sup> March and abate thereafter.
  - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds** (**speed 30-40 kmph**) likely over likely over Sub-Himalayan West Bengal & Sikkim, Bihar during 20<sup>th</sup>-22<sup>nd</sup> March and abate thereafter.
  - ✓ Isolated hailstorms also likely over East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Odisha during 20<sup>th</sup>-22<sup>nd</sup>; Sub-Himalayan West Bengal & Sikkim on 22<sup>nd</sup>; Gangetic West Bengal on 20<sup>th</sup>& 21<sup>st</sup>; Bihar on 21<sup>st</sup> & 22<sup>nd</sup> March.
- A Cyclonic Circulation lies over northeast Assam and neighbourhood in lower tropospheric levels. Under its influence;
  - ✓ **Scattered to Fairly widespread light/moderate rainfall/snowfall** accompanied with **thunderstorm, lightning** over Arunachal Pradesh during 20<sup>th</sup>-23<sup>rd</sup> March with Isolated **heavy rainfall/snowfall** on 21<sup>st</sup> & 22<sup>nd</sup> March.
  - ✓ Scattered to Fairly widespread light/moderate rainfall accompanied with thunderstorm, lightning & gusty winds (speed 30-50 kmph) likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 5 days.
  - ✓ Isolated hailstorms also likely over south Assam on 20<sup>th</sup> & 21<sup>st</sup> March.
- The trough/wind discontinuity runs from the cyclonic circulation over southwest Madhya Pradesh & neighbourhood to North Interior Karnataka in lower tropospheric levels. Under its influence;
  - ✓ **Isolated to Scattered** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds** (**speed 30-50 kmph**) likely over Tamilnadu Puducherry & Karaikal, Coastal Karnataka, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema during 22<sup>nd</sup>-24<sup>th</sup>; Kerala & Mahe, South Interior Karnataka, Telangana during next 5 days.
  - ✓ Isolated hailstorms also likely over Telangana on 21<sup>st</sup> & 22<sup>nd</sup> March.
- The Western Disturbance as a trough in lower & middle tropospheric levels runs roughly along Longitude 72° E and north of latitude 30° N and a upper air cyclonic circulation lies over southwest Rajasthan in lower tropospheric levels, Under the influence of these systems;
  - ✓ **Isolated** light/moderate rainfall accompanied with **thunderstorm**, **lightning & gusty winds** (**speed 30-40 kmph**) likely over Uttarakhand, Punjab, Haryana Chandigarh, Rajasthan on 20<sup>th</sup>; Uttar Pradesh during 20<sup>th</sup>-22<sup>nd</sup> March.

### **Temperature Forecast:**

## **Forecast of temperature:**

#### **Maximum temperature:**

- No significant change in maximum temperatures likely over Northwest India during next 3 days and rise by 2-3°C during subsequent 2 days.
- Gradual fall in maximum temperatures by 2-3°C likely over Central India during next 2-3 days and no significant change thereafter.
- ❖ No significant change in maximum temperatures likely over East India during next 24 hours and gradual fall by about 4-6°C for subsequent 3-4 days.
- No significant change in maximum temperatures likely over West India during next 2 days and rise by 2-3°C during subsequent 3 days.

## Heat wave and Hot & Humid weather warning:

- ❖ No heat wave likely over any parts of country during next 4-5 days.
- ❖ Hot & humid conditions very likely to prevail in isolated pockets over coastal areas of Gujarat State during 22<sup>nd</sup>-24<sup>th</sup>; Tamilnadu Puducherry & Karaikal on 20<sup>th</sup> & 21<sup>st</sup> March.





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#### **Main Weather Observations:**

- \* Rainfall/Snowfall distribution (from 0830 hours IST of yesterday to 0830 hours IST of today): Rainfall/Snowfall at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad; at isolated places over Himachal Pradesh and Uttarakhand; Rainfall at a few places over Andaman & Nicobar Islands and Kerala & Mahe; at isolated places over East Uttar Pradesh, Madhya Pradesh, Gangetic West Bengal, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Tamil Nadu, Puducherry & Karaikal and Interior Karnataka.
- Significant amount of rainfall (from 0830 hours IST of yesterday to 0830 hours IST of today) (in cm): Tamilnadu Puducherry & Karaikal: Thenkasi (dist Tenkasi), Shencottah (dist Tenkasi) 4 each, Tenkasi (dist Tenkasi), Gundar Dam (dist Tenkasi) 3 each; Kerala & Mahe: Ranni(dist athanamthitta) 4, Kanjirappally (dist Kottayam) 4, Konni (dist Pathanamthitta) 3, Ponnani (dist Malappuram) 3; South Interior Karnataka: Sringeri Hms (dist Chikkamagaluru) 3, Balehonnur (dist Chikkamagaluru) 1.
- Hailstorms reported at isolated locations over Jharkhand.
- 💠 Gusty wind reported at isolated locations over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Gangetic West Bengal.
- \* Thunderstorm reported at isolated locations over Gangetic West Bengal, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Kerala & Mahe.
- Minimum Temperature Departures (as on 20-03-2025): Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over Odisha; appreciably above normal (3.1°C to 5.0°C) at many places over Marathwada and Jharkhand; at a few places over West Rajasthan, East Madhya Pradesh; Vidarbha; at isolated places over East Rajasthan, West Madhya Pradesh, Madhya Maharashtra, Bihar, Gangetic West Bengal and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over Gujarat Region, Interior Karnataka, Rayalaseema, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Chhattisgarh. These are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Uttarakhand; below normal (-3.0°C to -1.6°C) at many places over Haryana-Chandigarh-Delhi; at a few places over Punjab and Himachal Pradesh; at isolated places over Assam & Meghalaya and Telangana and near normal over rest parts of the country (Fig. 4). Today, the lowest minimum temperature of 12.1°C is reported at Karnal (Haryana) over the plains of the country.
- Maximum Temperature Departures (as on 19-03-2025): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu-Kashmir-Ladakh- Gilgit-Baltistan-Muzaffarabad, West Madhya Pradesh, Arunachal Pradesh and Odisha; above normal (1.6°C to 3.0°C) at many places over Punjab, Marathwada and Jharkhand; at a few places over Haryana-Chandigarh-Delhi, West Rajasthan, Madhya Maharashtra, Telangana, Rayalaseema and Coastal Karnataka; at isolated places over Uttarakhand, Uttar Pradesh, Konkan & Goa, Vidarbha, Chhattisgarh, Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal and North Interior Karnataka. These were below normal (-3.0°C to -1.6°C) at isolated places over Himachal Pradesh and near normal over rest parts of the country. (Fig. 2). Yesterday, the highest maximum temperature of 41.1°C was reported at Akola (Vidarbha) & Bolangir (Odisha) overthecountry.





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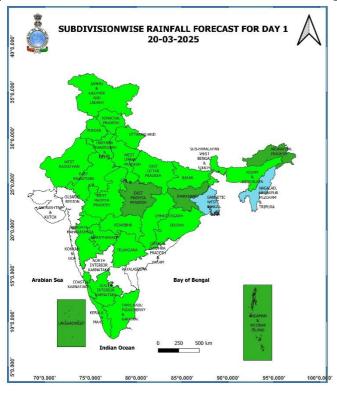
Meteorological Analysis (Based on 0830 hours IST)

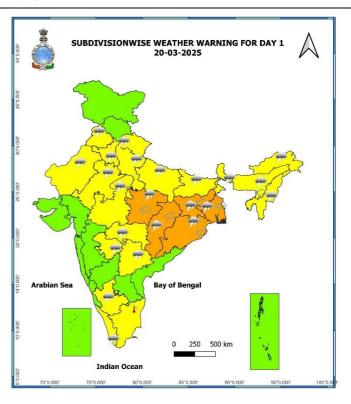
<b>*</b>	The <b>Western Disturbance</b> now seen as a trough in lower & middle tropospheric levels with its axis at 3.1 km above means sea level roughly along Long. 72°E to the north of Lat. 30°N.
<b>*</b>	The upper air <b>cyclonic circulation</b> over Southwest Rajasthan & neighbourhood persists and now extends upto 3.1 Km above mean sea level.
<b>*</b>	An upper air <b>cyclonic circulation</b> lies over southwest Madhya Pradesh & neighbourhood and extends upto 1.5 km above mean sea level.
<b>*</b>	A <b>trough</b> runs from the above <b>cyclonic circulation</b> over southwest Madhya Pradesh & neighbourhood to North Odisha across Chhattisgarh at 0.9 km above mean sea level.
*	The <b>trough/wind discontinuity</b> from Marathwada to south Tamil Nadu now runs from the <b>cyclonic circulation</b> over southwest Madhya Pradesh & neighbourhood to North Interior Karnataka across Maharashtra at 0.9 km above mean sea level.
*	The upper air <b>Cyclonic Circulation</b> over northeast Assam & neighbourhood extending upto 1.5 km above mean sea level persists.
*	A fresh <b>Western Disturbance</b> is likely to affect Western Himalayan Region from the night of 24 <sup>th</sup> March, 2025.
*	The <b>trough</b> from central parts of Odisha to south Vidarbha across south Chhattisgarh at 0.9 km above mean sea level has become less marked.
	Weather Forecast & Warnings for next 7 days (Upto 0830 hours IST of 27th March, 2025)





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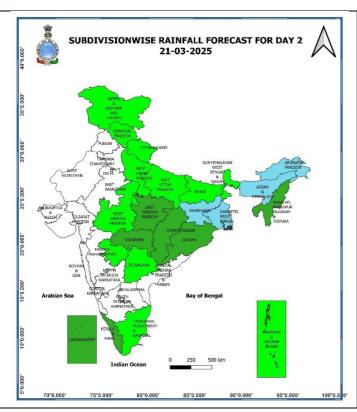


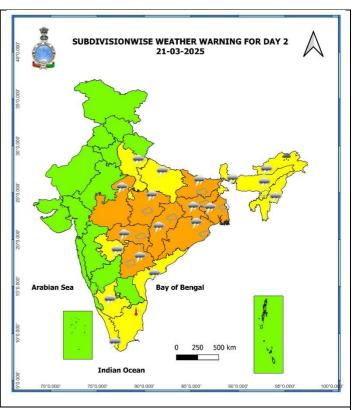
## 20<sup>th</sup> March (Day 1):

- Thunderstorm accompanied with squally winds (speed reaching 50-60 kmph), Hailstorm & lightning likely at isolated places over Gangetic West Bengal and Odisha; with squally winds (speed reaching 40-50 kmph), Hailstorm & lightning at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Assam & Meghalaya and Jharkhand; with gusty winds (speed reaching 40-50 kmph) & lightning likely at isolated places over West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim and Nagaland, Manipur, Mizoram & Tripura; with gusty winds (speed reaching 30 40 kmph) lightning likely at isolated places over Uttar Pradesh, Rajasthan, Bihar, Marathwada and South Interior Karnataka; with lightning at isolated places over Punjab, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Haryana-Chandigarh- Delhi, Arunachal Pradesh, Kerala & Mahe and Telangana.
- Hot and Humid Conditions very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail along and off west Bengal coast and adjoining north Odisha coast. Fishermen are advised not to venture into these areas.



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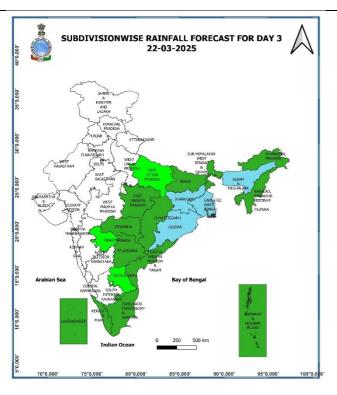


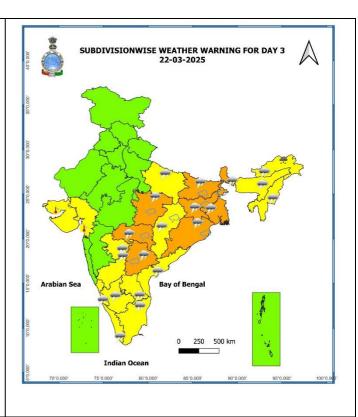
## 21st March (Day 2):

- **Heavy rainfall** very likely at isolated places over Arunachal Pradesh.
- Thunderstorm accompanied with squally winds (speed reaching 50-60 kmph), Hailstorm & lightning likely at isolated places over East Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Jharkhand and Odisha; with squally winds (speed reaching 40-50 kmph), Hailstorm & lightning at isolated places over Vidarbha, Assam & Meghalaya and Telangana; with squally winds (speed reaching 30-40 kmph), Hailstorm & lightning at isolated places over Bihar; with gusty winds (speed reaching 50-60 kmph) & lightning likely at isolated places over West Madhya Pradesh; with gusty winds (speed reaching 40 50 kmph) lightning at isolated places over East Uttar Pradesh, Marathwada and Nagaland, Manipur, Mizoram & Tripura; with gusty winds (speed reaching 30 40 kmph) lightning at isolated places over West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, and South Interior Karnataka; with lightning at isolated places over Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.
- Hot and Humid Conditions likely at isolated places over Tamil Nadu, Puducherry & Karaikal.
- Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail along and off west Bengal coast and north Odisha coast. Fishermen are advised not to venture into these areas.



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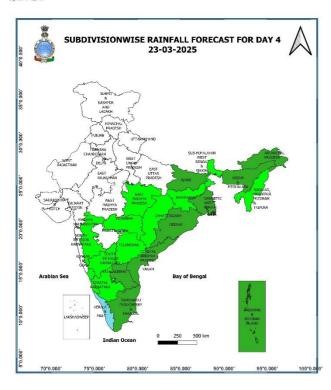
#### 22<sup>nd</sup> March (Day 3):

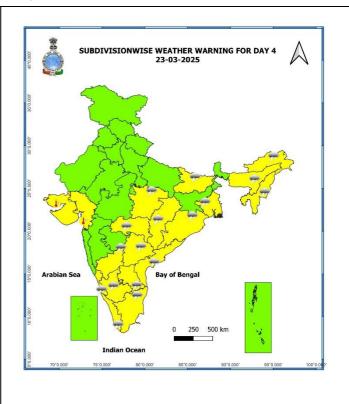
- Heavy rainfall very likely at isolated places over Arunachal Pradesh.
- Thunderstorm accompanied with winds (speed reaching 50-60 kmph) Hailstorm & lightning likely at isolated places over Odisha; with gusty winds (speed reaching 40 50 kmph) Hailstorm & lightning likely at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Jharkhand and Telangana; with gusty winds (speed reaching 30 40 kmph), Hailstorm & lightning likely at isolated places over Bihar; with gusty winds (speed reaching 40 50 kmph) lightning likely at isolated places over East Uttar Pradesh, Gangetic West Bengal, Marathwada, Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka; with gusty winds (speed reaching 30 40 kmph) & lightning likely at isolated places over Assam & Meghalaya; with lightning at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, and Tamil Nadu, Puducherry & Karaikal.
- Hot and Humid Conditions very likely at isolated places over coastal Gujarat





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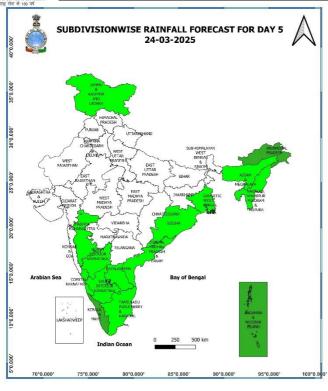
# 23<sup>rd</sup> March (Day 4):

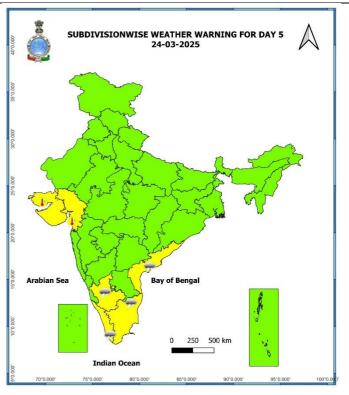
- \* Thunderstorm accompanied with gusty winds (speed reaching 40 50 kmph) & lightning likely at isolated places over Kerala & Mahe, Coastal Andhra Pradesh & Yanam, Rayalaseema and Karnataka; with gusty winds (speed reaching 30 40 kmph)& lightning likely at isolated places over East Madhya Pradesh, Vidarbha and Assam & Meghalaya; with lightning at isolated places over Chhattisgarh, Gangetic West Bengal, Bihar, Odisha, Arunachal Pradesh, Telangana, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.
- Hot and Humid Conditions likely at isolated places over coastal Gujarat.





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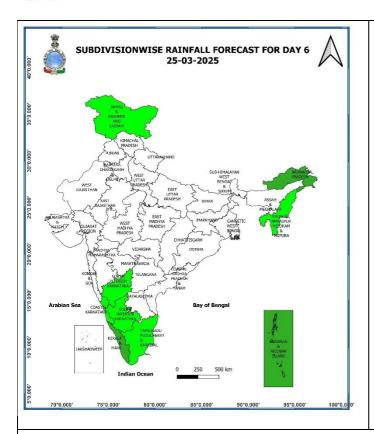


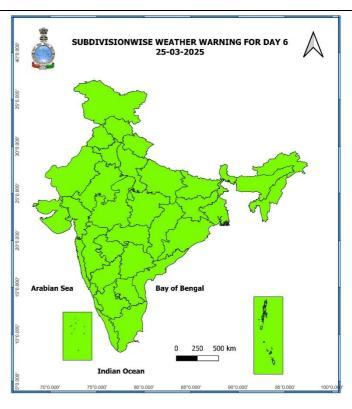
# 24<sup>th</sup> March (Day 5):

- \* Thunderstorm accompanied with gusty winds (speed reaching 30 40 kmph) & lightning likely at isolated places over Coastal Andhra Pradesh & Yanam; with lightning at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and South Interior Karnataka.
- Hot and Humid Conditions likely at isolated places over coastal Gujarat.



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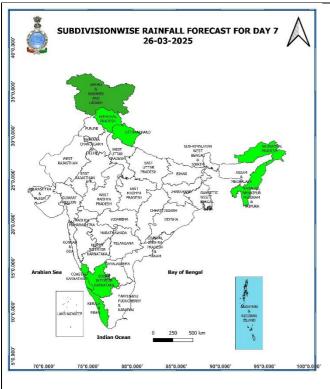
#### 25th March (Day 6):

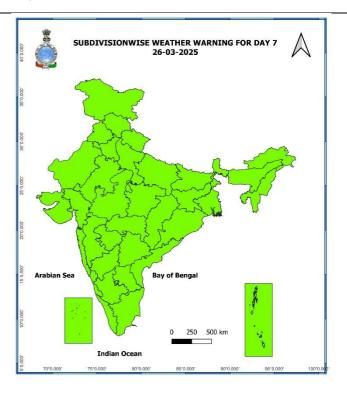
No Weather Warning.





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## 26th March (Day 7):

No Weather Warning.

# Weather Outlook for subsequent 3 days (During 27th March- 29th March, 2025)

Isolated to scattered rainfall likely over Jammu & Kashmir, Northeast, East & adjoining Central India, south Peninsular India.

 $Action \ may \ be \ taken \ based \ on \ {\color{red}ORANGEAND\ RED\ COLOUR\ warnings}.$ 

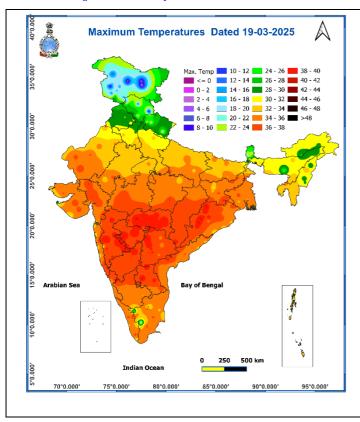
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

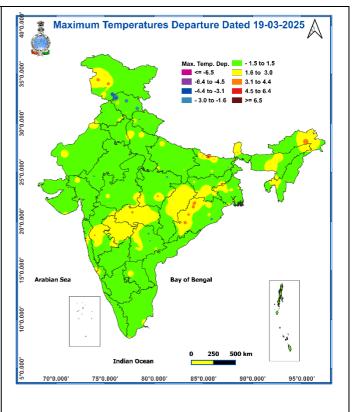


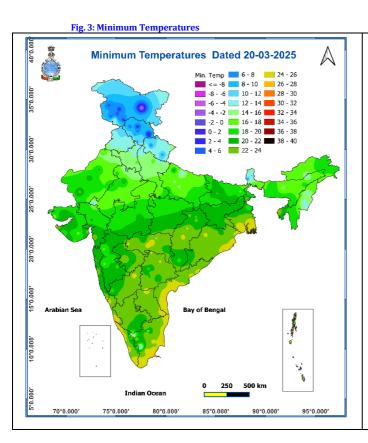
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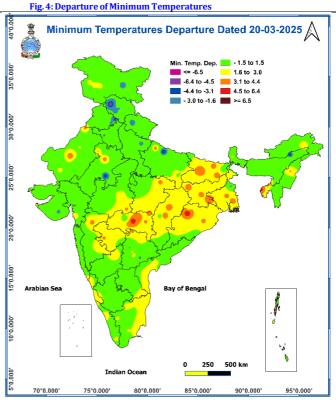
Fig. 1: Maximum Temperatures

Fig. 2: Departure of Maximum Temperatures













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Impact expected and action suggested due to thunderstorm accompanied with lightning/gusty winds over Northeast, Central & East India during next 4 days; Kerala & Mahe & South Interior Karnataka during next 5 days.

- Impact expected:
- Strong wind may damage plantation, horticulture and standing crops.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.
- **Action suggested:**
- Stay indoors, close windows & doors and avoid travel if possible.
- \* Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.

#### Agromet advisories for likely impact of Heavy Rainfall / Hailstorm

- ✓ In **Odisha**, apply light and frequent irrigation to the standing crops, vegetables and orchards in the evening to protect them from adverse impacts of high temperatures.
- ✓ To avoid the adverse impact of likely hailstorm, harvest the matured standing crops, vegetables and fruits and shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields.
- ✓ Provide mechanical support to horticultural crops and staking to vegetables to avoid lodging.

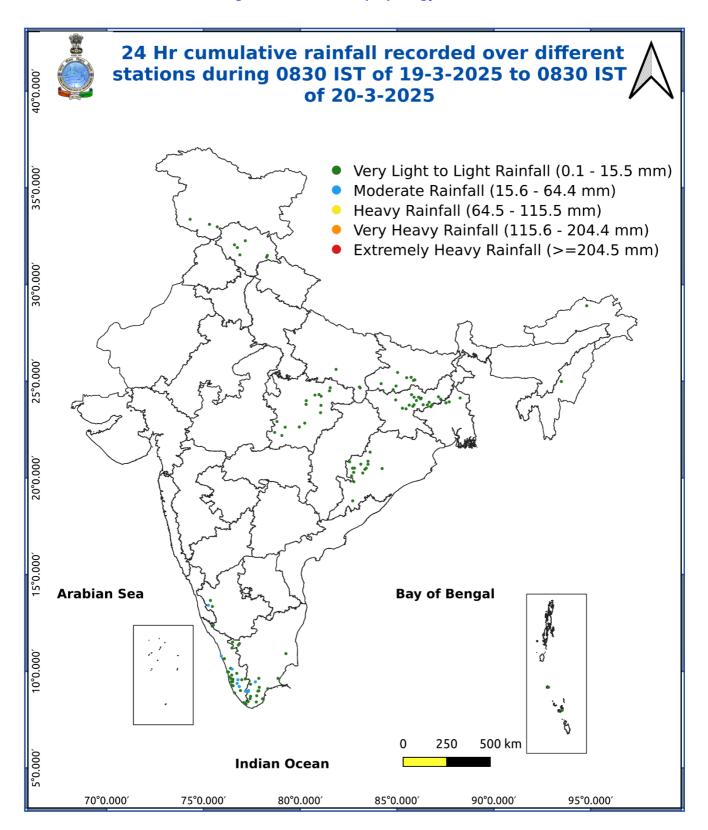
### Livestock

- Store feed and fodder in a safe place to prevent spoilage.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass. Also provide clean, hygienic and plenty of drinking water to animals.





Fig. 5: Accumulated Rainfall (mm) during past 24 hours



33. आतंरिक उत्तरी कर्नाटक

S Dust Raising Winds

35. केरल और माहे

36. लक्षद्वीप

34. आतंरिक दक्षिणी कर्नाटक



#### **National Weather Forecasting Centre India Meteorological Department** Ministry of Earth Sciences

## **LEGENDS**



- 1. Andaman & Nicobar Islands
- 2. Arunachal Pradesh
- 3. Assam & Meghalaya
- 4. Nagaland, Manipur, Mizoram & Tripura
- 5. Sub-Himalayan West Bengal & Sikkim
- 6. Gangetic West Bengal
- 7. Odisha
- 8. Jharkhand
- 9. Bihar
- 10. East Uttar Pradesh
- 11. West Uttar Pradesh
- 12. Uttarakhand
- 13. Haryana, Chandigarh & Delhi
- 14. Punjab
- 15. Himachal Pradesh
- 16. Jammu & Kashmir and Ladakh
- 17. West Rajasthan
- 18. East Rajasthan
- 19. West Madhya Pradesh
- 20. East Madhya Pradesh
- 21. Gujarat
- 22. Saurashtra
- 23. Konkan & Goa
- 24. Madhya Maharashtra
- 25. Marathwada
- 26. Vidarbha
- 27. Chhattisgarh
- 28. Coastal Andhra Pradesh & Yanam
- 29. Telangana
- 30. Rayalaseema
- 31. Tamilnadu, Puducherry & Karaikal
- 32. Coastal Karnataka
- 33. North Interior Karnataka
- 34. South Interior Karnataka
- 35. Kerala & Mahe
- 36. Lakshadweep

## **SPATIAL DISTRIBUTION** (% of Stations reporting)

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/A Few Places)
51-75	Fairly Widespread (FWS/Many Places)	1-25	Isolated (ISOL)



Strong Surface Winds

Alert (Be Prepared To Take Action)

### Probabilistic Forecast

	Terms	Probability of Occurrence (%)
	Unlikely	< 25
1	Likely	25 - 50
1	Very Likely	50 - 75
Ī	Most Likely	> 75





	( DEFINITION/CRITERIA )
	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*
	Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal
	Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.
	Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C.  Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum
	temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.  Severe Warm Night: When minimum temperature departure >6.4 °C.
	Cotto Hamiltonian American Composition Com
	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cald Wave	Severe Cold Wave: Minimum Temperature Departure from normal ≤ -6.5 °C
Cold Wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave: When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	( c) For Coastal Stations  When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
	When Minimum Temperature departure is 5-4.5 C & actual Minimum Temperature is 5 15 C
Cold Dov	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
For	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres  Very Dense Fog: when the visibility < 50 metres
-66	very belief tog. When the visionity 100 meters
Thunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
	Ice deposits on ground
Frost	Air temperature ≤4°C ( over Plains)
	A stress with data to be a suit dental to be a few of the state of the
	A strong wind that rises suddenly, lasts for atleast 1 minute.  Moderate: Wind speed 52-61 kmph
Squall	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed >87 kmph
	Effect of various waves in the sea over specific area
	Pough to year rough: Wind speed 41.62 kmph (22.33 kmsts) 9 Ways height 2.5.6 metro
Sea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre
Sea State	Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre  High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
Sea State	High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre
Sea State	High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre  Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
	High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre  Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
Sea State Cyclone	High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre  Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)
	High to very high: Wind speed 63-117 kmph ( 34-63 knots) & Wave height 6-14 metre  Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre  Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)  Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)